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MERCK AND P O BOX 2000			YOUNG, SHAWQUIA	
RAHWAY, NJ 07065-0907			ART UNIT	PAPER NUMBER
			1626	•
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Shawquia Young								
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1) ⊠ Responsive to communication(s) filed on 27 February 2007. 2a) ☐ This action is FINAL. 2b) ⊠ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☒ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) 11 and 13 is/are withdrawn from consideration. 5) ☐ Claim(s)	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any							
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DETAILED ACTION

Claims 1-13 are currently pending in the instant application.

I. Priority

The instant application is a 371 of PCT/CA04/01524, filed on August 19, 2004, which claims benefit of US Provisional Application 60/496,825, filed on August 21, 2003.

II. Information Disclosure Statement

The information disclosure statement (IDS) submitted on May 10, 2006 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

III. Restriction/Election

A. Election: Applicant's Response

Applicants' election with traverse of Group I in the reply filed on February 27, 2007 is acknowledged. The traversal is on the ground(s) that: (1) the Examiner's assertion that the "variables vary extensively" in the Restriction Requirement and (2) the Examiner would not be saddled with the burden of conducting multiple searches.

All of the Applicants' arguments have been considered but have not been found persuasive. It is pointed out that the restriction requirement is made under 35 U.S.C. 121. 35 U.S.C. 121 gives the Commissioner (Director) the authority to restrict applications to several claimed inventions when those inventions are found to be independent and distinct. The Examiner has indicated that more than one independent and distinct invention is claimed in this application and has restricted the claimed

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subject matter accordingly.

Applicants disagree with the Examiner's assertion that the "variables vary extensively." Applicants further state that although there are multiple substituents provided for each of the R, D, E and G groups, the substituents are chosen in such a way as to produce cathepsin K inhibitors. However, the Examiner points out that the variables R¹, R², E, D, G, R⁵, etc. can be chosen from several groups and optionally substituted which could change the class of the compound. For example, variable D is aryl or heteroaryl and according to Applicants' specification (page 23, lines 28-35) the term "heteroaryl" includes groups such as pyranyl, pyridyl, pyrimidinyl, benzoimidazolyl, etc. Therefore, if D is a heteroaryl group then the class of the compound could be 544, 546, 548 or 549. The Examiner further emphasizes that the variables do vary extensively in the claimed invention.

The Restriction Requirement detailed the reasons for restriction between the groups. Different search considerations are involved (i.e., class/subclass searches, databases searches, etc.) for each of the groups listed. The inventions are classified into classes 514, 544, 546, 548 and 549. However, each Class 514, 544, 546, 548 and 549 encompasses numerous patents and published applications. For instance, Class 514 contained 165,171 patents and published applications. Therefore it would constitute a burden on the Examiner and the Patent Office's resources to examine the instant application in its entirety.

Subject matter not encompassed by elected Group I are withdrawn from further consideration pursuant to 37 CFR 1.142 (b), as being drawn to nonelected inventions.

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IV. Rejections

Claim Rejections - 35 USC § 112, 1st paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-10 and 12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The "N-oxide derivatives" of the compounds of Claims 1-10 and 12 are not defined in the specification so as to know the structures of the compounds that are included and/or excluded by the term. Therefore, the specification lacks adequate support for Claims 1-10 and 12.

Claim Rejections - 35 USC § 112, 2nd paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-10 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1-10 and 12 are indefinite for the reasons set forth above under 35 U.S.C. 112, first paragraph. Claims 1-10 and 12 are drawn to "a compound of the formula represented in claim 1 or a pharmaceutically acceptable salt, stereoisomer or N-oxide derivative thereof." However, the "N-oxide derivative" of the compounds of Claims 1-10 and 12 are not defined in the claims so as

to know the metes and bounds of the claims. Therefore, the claims are indefinite.

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V. Objections

Claim Objection-Non Elected Subject Matter

Claims 1-10 and 12 are objected to as containing non-elected subject matter. To overcome this objection, Applicant should submit an amendment deleting the non-elected subject matter.

VI. Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawquia Young whose telephone number is 571-272-9043. The examiner can normally be reached on 5:30 AM-2:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph M^oKane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Business Center (EBC) at 866-217-9197 (toll-free).

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